Joint Capabilities Integration and Development System (JCIDS) CJCSI 3170.01D

Marine Corps Integration

15 Jun 04

Col Montemayor & Col Blasiol
EFDC MCCDC
V8.0

Purpose

1. Inform the MROC on the JCIDS process and impact on USMC EFDS.

2. MROC endorse CJCSI 3170.D Knowledge Management/Decision Support (KM/DS) tool as official Marine Corps tasking tool.

3. MROC endorse strategy to close USMC JCIDS Integrated Architecture and pre-MS A JCIDS Analysis (FAA/FNA/FSA/PIA) seams.

Background

- SecDef Snowflake (March 2002)

"As Chairman of the JROC, please think through what we all need to do, individually or collectively, to get the requirements system fixed.

It is pretty clear it is broken, and it is so powerful and inexorable that it invariably continues to require things that ought not to be required, and does not require things that need to be required."

New mandated framework from SECDEF to make Joint Integrated capability decisions early in the process.

SECDEF Mandated Process

- …joint concepts-centric capabilities identification process that will allow joint forces to meet the full range of military challenges of the future.
- …a more **rigorous** & holistic approach to capability definition and development will require **more effort early** in the process…

Overview

- **Desired Attributes of DoD Decision Process**
  - **Responsive, early DoD input**
  - **Involve Leadership "when it counts"**
- **New 3170.01D Ch 1, dtd 12 Mar 2004**
  - **Top down; Born Joint**
  - **Tees up issues early w/ wider input**
- **Impact to USMC/Services**
  - **All ACATs reviewed**
  - **New Upfront analysis**
    - **Performed by Service**
  - **FCBs review program pre-MS A**
  - **Must meet ALL Joint Standards**
  - **FCB tees up program for JROC**

FCB Responsibilities

- **Organize and analyze Service capability proposals within assigned functional area.**
- **Ensure JCIDS documents are consistent with integrated joint force.**
- **Ensure new capabilities are conceived and developed in Joint Warfighting Context.**
- **Determine gaps, seams and redundancies in the Joint Context and then make programmatic recommendations.**

JCIDS FCBs

RDML Murrett
JS J-2

Battlespace Awareness Portfolio
- All source intel collection
- Environmental data collection
- Predictive analysis
- Knowledge management

RADM Brown
JS J-6

Net-Centric Portfolio
- Net-Centric Environment
- Operational Pictures
- JFC2
- Coal Info Sharing
- Combat ID
- Nat/Strategic C2

Brig Gen Scott
JS J-8

Force Application Portfolio
- Land, maritime, air & space ops
- Computer Network Opns
- Joint targeting
- Conventional and nuclear atk
- Close and urban combat
- CNA
- Electronic attack
- PSYOPS
- Special ops
- Joint fires
- SEAD
- Military deception

RADM Mathis
JS J-8

Protection Portfolio
- Personnel and infrastructure protection
- Proliferation control
- Homeland security
- Consequence management
- Air and missile Defense

Brig Gen Taylor
JS J-4

Focused Logistics Portfolio
- Deployment/ distribution
- Sustainment
- Medical
- Mobility
- Logistics C2

***Appropriate Milestone Decision Authority will co-chair FCB (AT&L, USecAF, or NII representative)**

JCIDS Oversight

Annual Cost to USMC:

Old JWCA - 1.25 manyear per

New FCB - 3.3 manyears per & growing

JROC-Gen Pace
Joint Requirements Oversight Counsel

Gen Nyland

JCB-LtGen Cartwright
Joint Capabilities Board

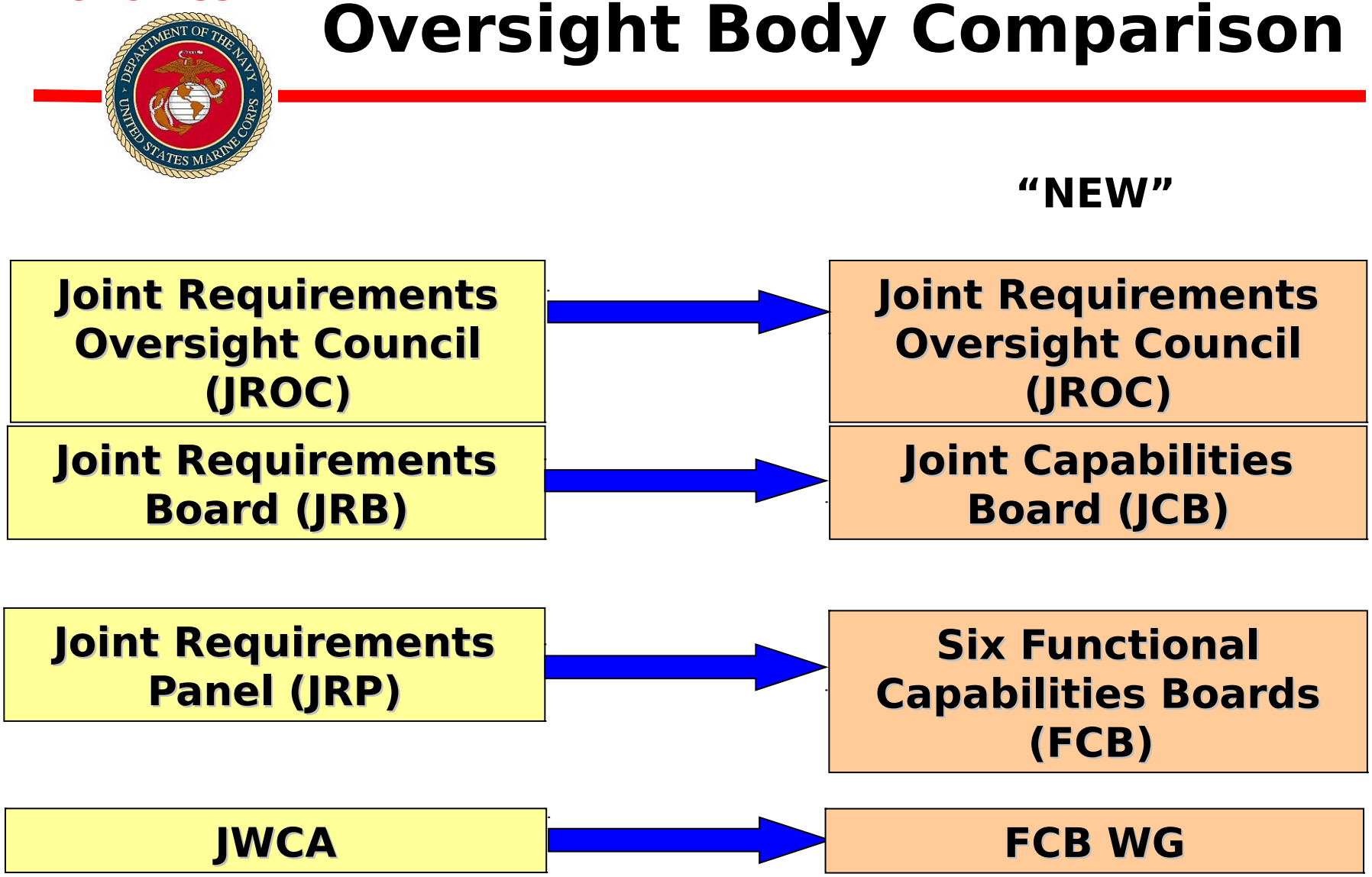
MajGen Lott

RDMLBrown,J6	BGen Taylor,J4	RDML Murrette,J2	BGen Scott,J8	RDML Mathis,J8	BG Rogers,JFCOM
Net Centric	Focused Logistics	Battlespace Awareness	Force Application	Protection	Command & Control
Col Cooper	LtCol Sichler	Mr. Silver	LtCol Miles	Col Montemayor	Col Montemayor
NetCentric	Focused Logistics	Battlespace Awareness	Force Application	Protection	Command & Control
C4	I&L	Intel	AVN,PP&O, MCCDC	PP&O, MCCDC	MCCDC, C4I

HQMC,MCCDC,SYSCOM, MROC Advocates

P&R Overview

Oversight Body Comparison



CJCSI 3170.01D Cross-reference

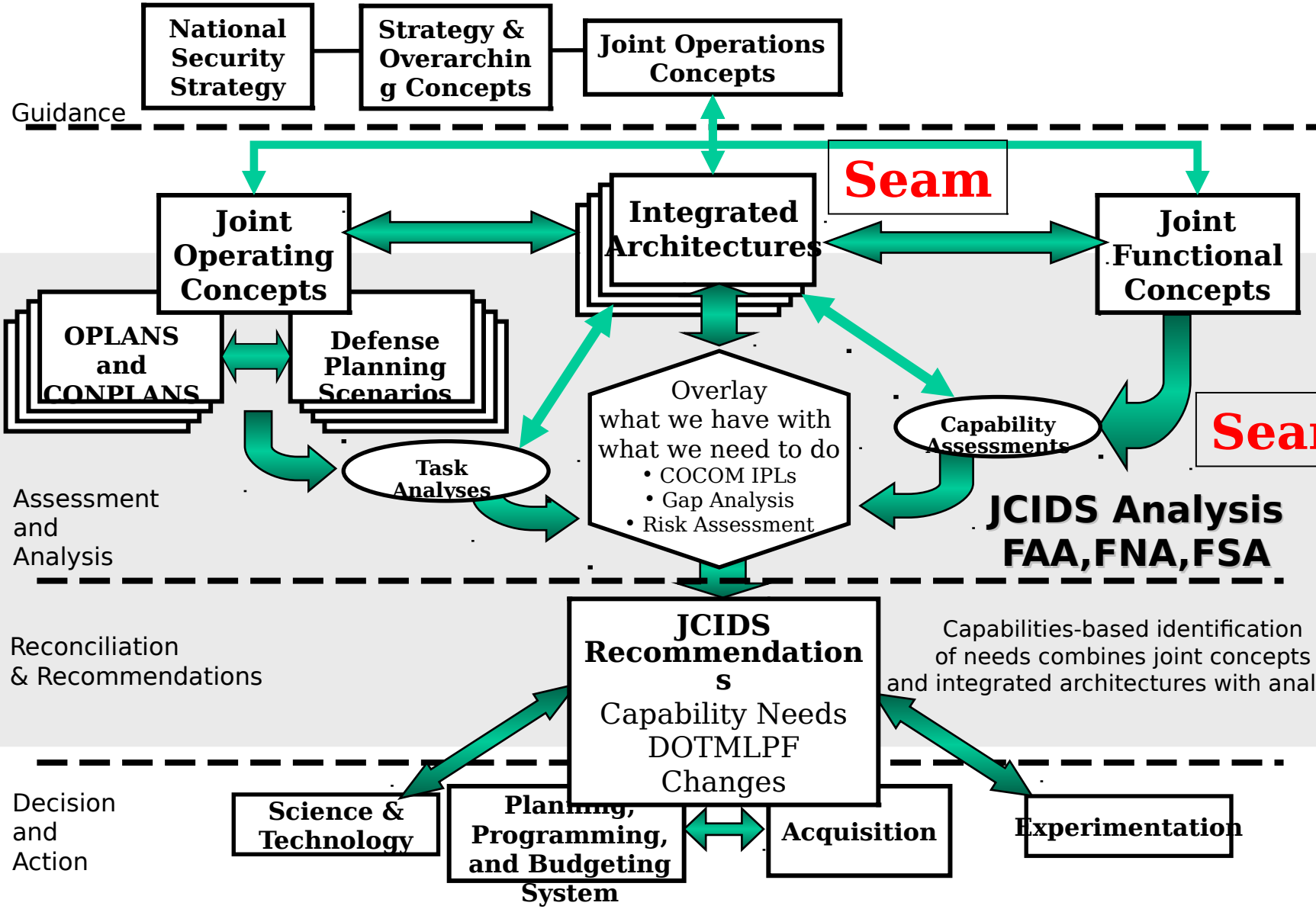
"NEW"

Capstone Requirements Document (CRD)	Integrated Architectures
Mission Needs Statement (MNS)	Initial Capabilities Document
Operational Requirements Document (ORD)	Capability Development Document
Operational Requirements Document (ORD)	Capability Production Document

Major Impacts

- Requires more rigorous analytic effort early (pre-MS A) in the process.
- No new Mission Need Statements (MNS) will be accepted into the process.
- A validated and approved ORD, developed under a previous version of this instruction, may be used to support a MS B or C decision until **June 2005**.

Future Capabilities Needs Identification



JCIDS Architecture Document Requirements

Document	Net-Ready Key Performance Parameter Products													LISI Profile
	Supporting Architecture Products										NCOW RM	KIP Compliance	IA Compliance	
	AV-1	OV-1	OV-2	OV-4	OV-5	OV-6C	SV-4	SV-5	SV-6	TV-1				
ICD		X									X			
CDD	X		X	X	X	X	X	X	X	X	X	X	X	X
CPD	X		X	X	X	X	X	X	X	X	X	X	X	X

OV-1, High Level Operational Concept Graphic: provides a high level description of what the military force is and its intended effects on the defined threat.

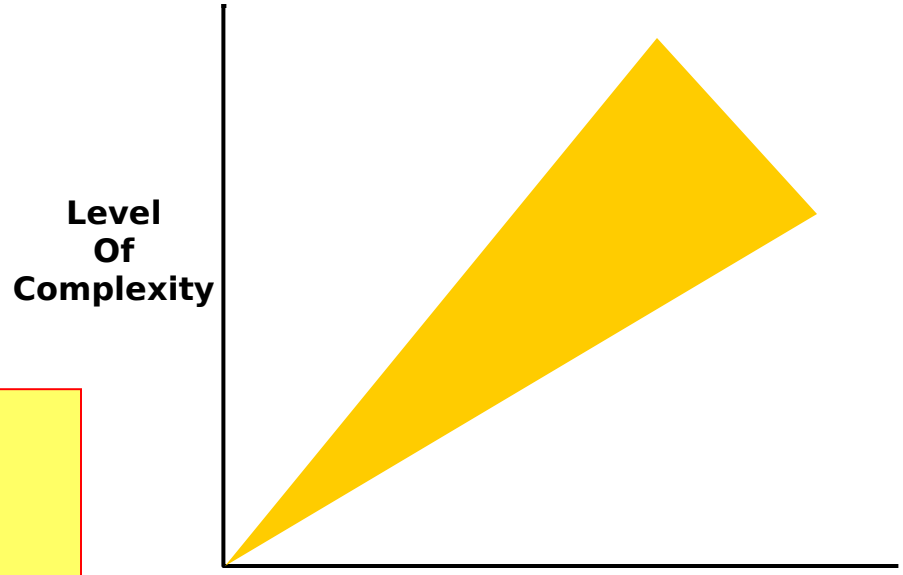
OV-5, Operational Activity Model: provides the first descriptions of how the military Force will achieve its intended effects.

JCIDS Analysis (Pre-MS A)

- **Functional Area Analysis (FAA)**
  - Identifies operational tasks, conditions, and standards needed to achieve military objectives.
- **Functional Needs Analysis (FNA)**
  - Assesses the ability of the current & programmed joint capabilities to accomplish the tasks that the FAA identified under the full range of operating conditions and to the designated standards.
- **Functional Solution Analysis (FSA)**
  - Operationally based assessment of all potential DOTMLPF approaches to solving one or more of the capability gaps previously identified.
- **Post Independent Analysis**
  - Considers compiled info and analysis results to determine which integrated DOTMLPF approach best addresses the joint capability gaps.

USMC Analysis Needs

Per individual analytical product

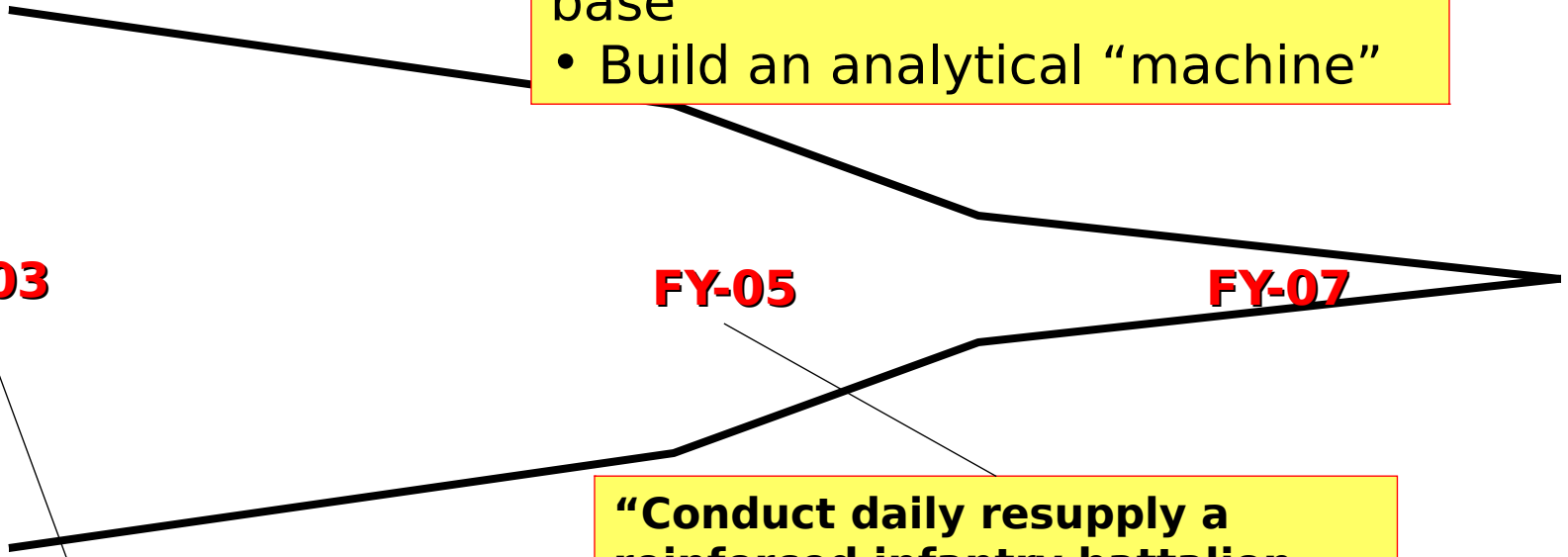


- Per FCB guidance
- Varies with
  - ACAT level
  - JPD

Number & type of products will influenc

EMW Capabilities List

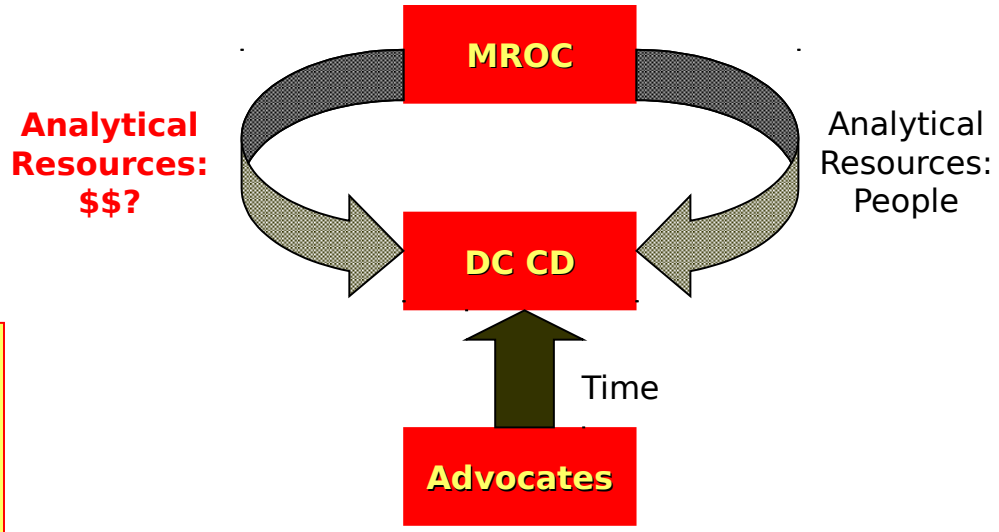
- Capture analytical results
- Expand detailed knowledge base
- Build an analytical “machine”



“Sustain an infantry battalion… up to 110 nm from the sea base.”

“Conduct daily resupply a reinforced infantry battalion operating 110 nm from the sea base, with *x* tons of Class I, *y* tons of Class III, *z* tons of Class V(W), using a combination of air and surface means, when LOCs are not secured.”

Allocate Resources: $$

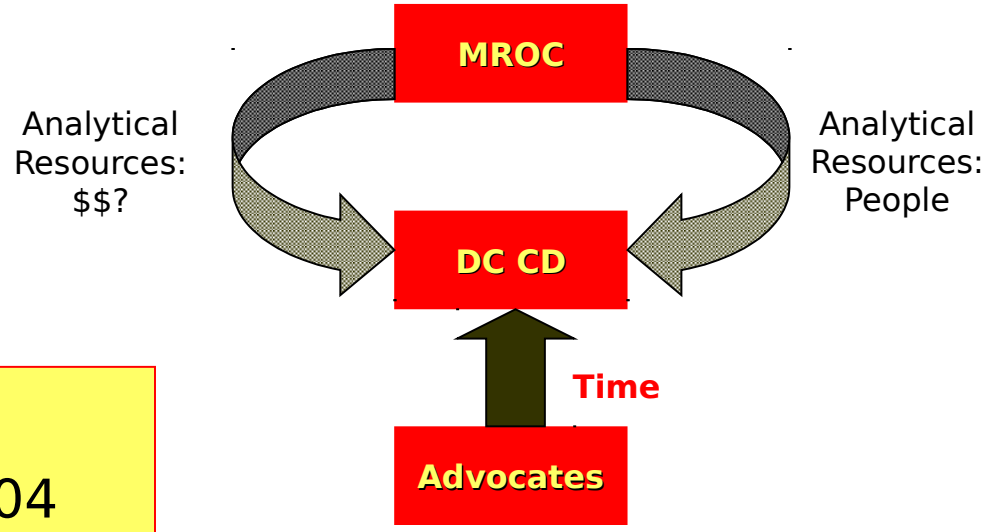


- **Current Funding:**
  - $1.2M (’04) → $2.0M (’09)
    (pre-JCIDS)
- **Future $$ Requirement**
  - JCIDS Mandate

Additional $2M/YR FY 06 - 07

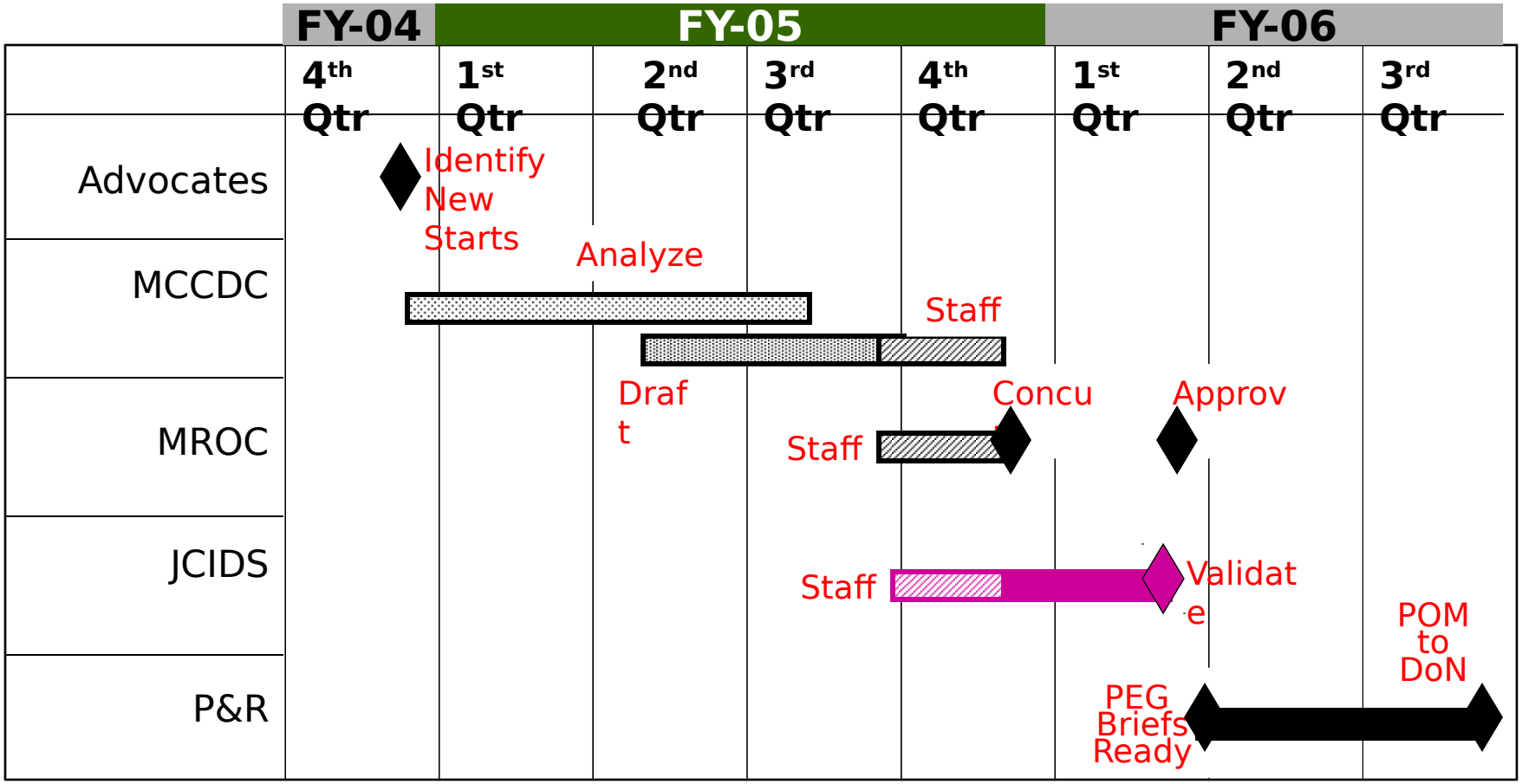
Additional $3M/YR FY 08 - 13

Start Early



- **Current Situation**
  - ARLs published 1st Qtr FY-04
  - ARLs include items without approved requirements docs
- **Future Requirement**
  - Identify POM-08 needs NLT Sep '04
  - ARLs: approved rqmnts only

Start Early


FY-04
FY-05
FY-06
4th Qtr
1st Qtr
2nd Qtr
3rd Qtr
4th Qtr
1st Qtr
2nd Qtr
3rd Qtr
Advocates
MCCDC
MROC
JCIDS
P&R
Identify New Starts
Analyze
Staff
Draf t
Staff
Concu r
Approv
Staff
Validat e
POM to DoN
PEG Briefs Ready

Course of Action 1

- **“Plug the dike”**
  - Additional contractor support for FY06-13 JCIDS Analysis & Architecture compliance
- **Pro:** USMC requirements will receive Joint Staff validation.
- **Con:** No historic cost data. *Ad hoc* approach; analytical resources subject to funding cuts.

Course of Action 2

- **Organize for Combat**
  - Establish dedicated JCIDS analytical support capability (estimate one GS-14 and eight GS-12/13)
  - "Surge" with contractor support, as required
- **Pro:** Standing capability, with adequate resources, vice *ad hoc* approach.
- **Con:** No historic data. No hedge against further joint process changes.

Recommendations

- **Endorse CoA 2**
  - **Evolve analytical capability methodically**
  - **Initial approach: “contractor-heavy”**
  - **Goal: Government (Civil Service) capability, rein by contractors**
- **Advocates identify POM-08 new start candidates NLT 1 Sep 2004**

Backup Slides

USMC Path to JCIDS

- Identify need for analyses & architecture development
- Allocate resources to accomplish mission
- Identify need for requirement documentation **early**
- Speed up internal staffing

Strategic Planning Guidance Fiscal Years 2006-2011 (Pre-Coordination Draft – December 2003)

- (u) Integrated architectures provide detailed depiction of the capabilities required to execute the JOCs and allow for “gap and seam” analysis to determine capability needs and redundancies. CJCS will present the USD(P) with a plan for architecture development and implementation. The plan will include:
  - A definition of architectures and their essential elements
  - Component roles and responsibilities
  - Decision support process that uses architecture data to provide senior leaders with timely responses to investment questions
  - Data requirements for populating architectures
- (u) The USD(AT&L) will brief the Deputy Secretary on changes necessary to adapt acquisition management processes to support the development of major programs with capability performance parameters that reflect integrated architectures. The changes will address the use of integrated architectures to support systems engineering throughout the capabilities-identification, evolutionary development and testing stages

UNCLASSIFIED

Principle Integrated Architecture Products

Framework Products	Framework Product Name	General Description
AV-1	Overview and Summary Information	Scope, purpose, intended users, environment depicted, analytical findings.
0V-2	Operational Node Connectivity Description	Operational nodes, operational activities performed at each node, connectivity and information exchange need lines between nodes.
OV-4	Organizational Relationship Chart	Organizational, role, or other relationships among organizations.
OV-5	Operational Activity Model	Operational activities, relationships among activities, inputs and outputs. Overlays can show cost performing nodes, or other pertinent information.
OV-6C	Operational Event-Trace Description	One of three products used to describe operational activity sequence and timing – traces actions in a scenario or sequence of events and specifies timing.
SV-4	System Functionality Description	Functions performed by systems and the information flow among system functions, including information assurance functions.
SV-5	Operational Activity to Systems Function Traceability Matrix	Mapping of systems back to operational capabilities or of system functions back to operational activities.

MCCDC Mission
ISO Architecture Development

MCCDC shall:

- Develop and maintain Marine Corps operational concepts and architectures in coordination with Marine Corp's CIO
- Ensure appropriate considerations are addressed in IT requirements documents as required
- Participate in the collaborative environment for the development and maintenance of the Enterprise Information Technology Architecture

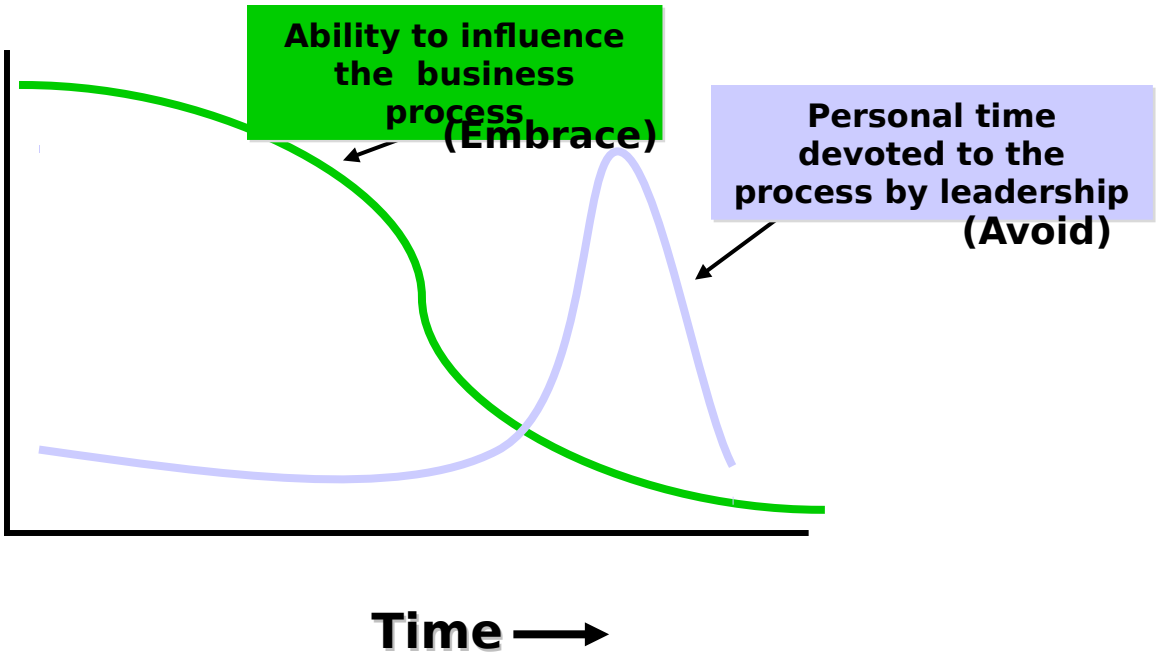
MOA between Marine Corps CIO; CG, MCCDC;
and CG, MARCORSYSCOM dated Oct 2002

Architecture Requirements

(U) The USD(AT&L) will brief the Deputy Secretary on changes necessary to adapt acquisition management processes to support the development of major programs with capability performance parameters **that reflect integrated architectures**.

Strategic Planning Guidance
Fiscal Years 2006 – 2011
Pre-Coordination Draft

JCIDS

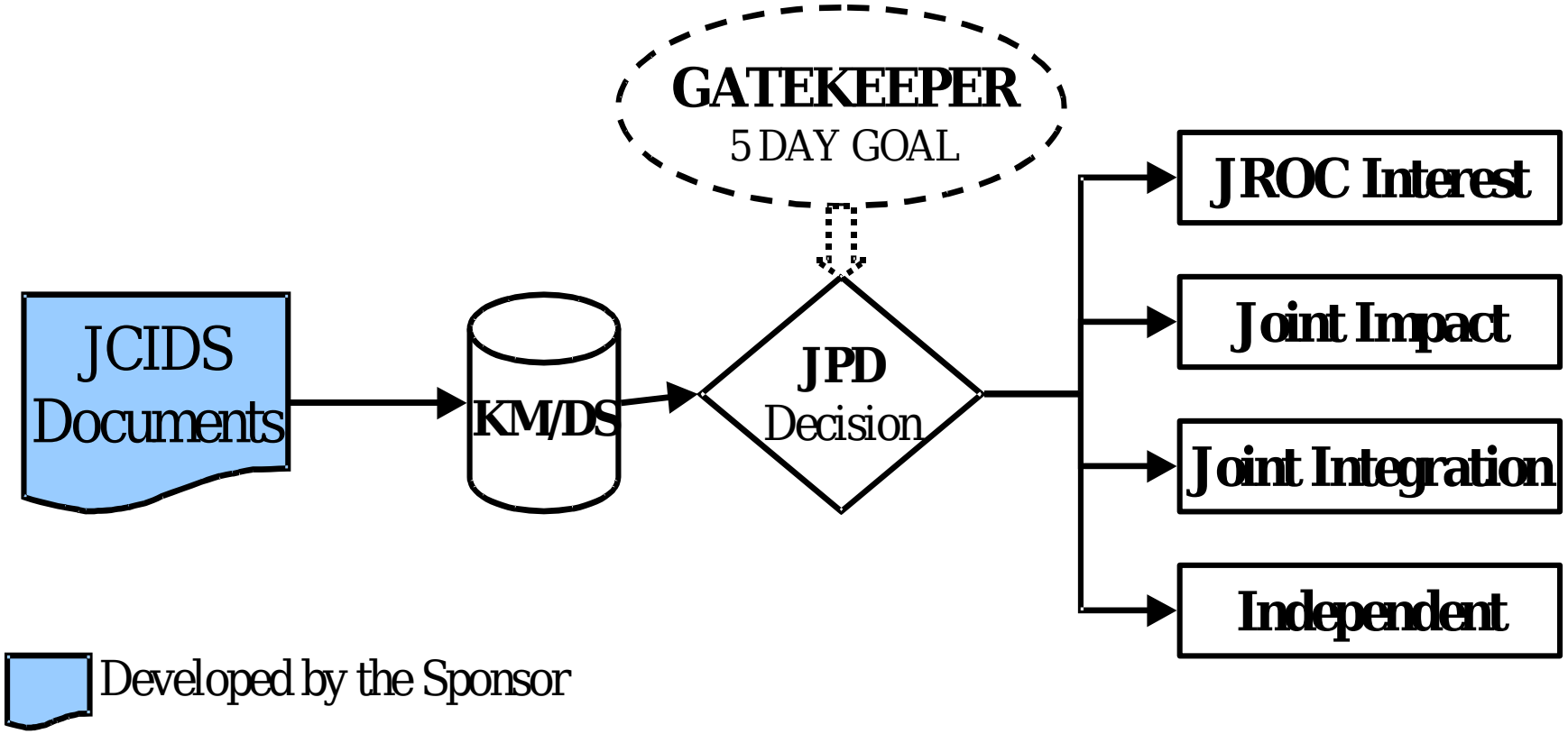


Action Agent:

Functional Capability Board (FCB)

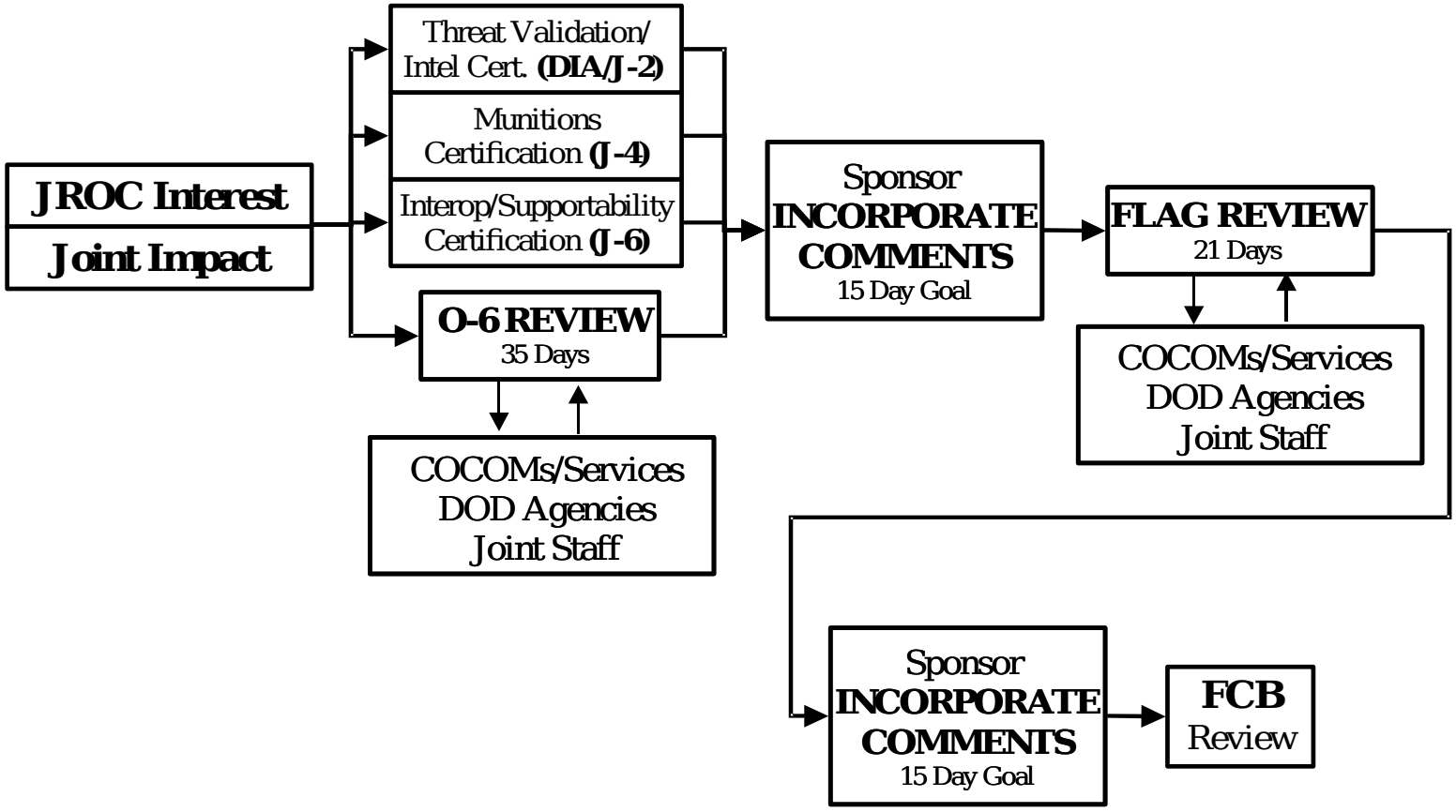
OSD AT&L, PA&E, Services, COCOMs, Joint Staff, Agencies

J8 Gate Keeping Process

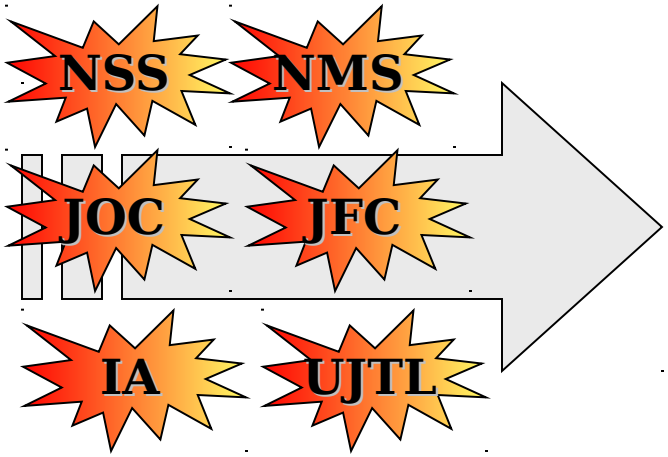


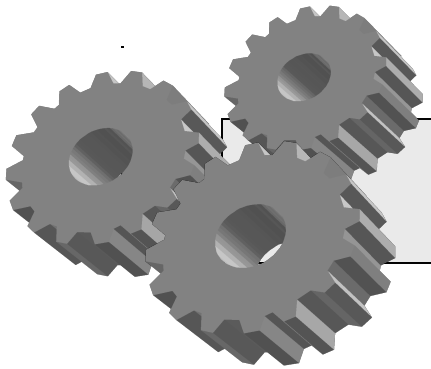
KM/DS is the tool used to submit documents & comments for 0-6 &

JROC Interest & Joint Impact Staffing Process



Functional Area Analysis



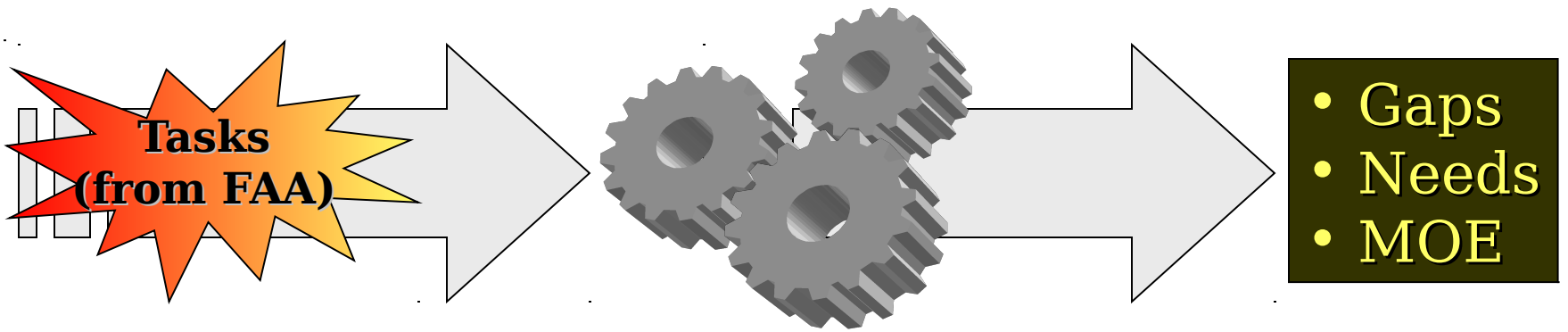


- Tasks
- Conditions
- Standards

Includes cross-capability & cross-system analysis

Functional Need Analysis

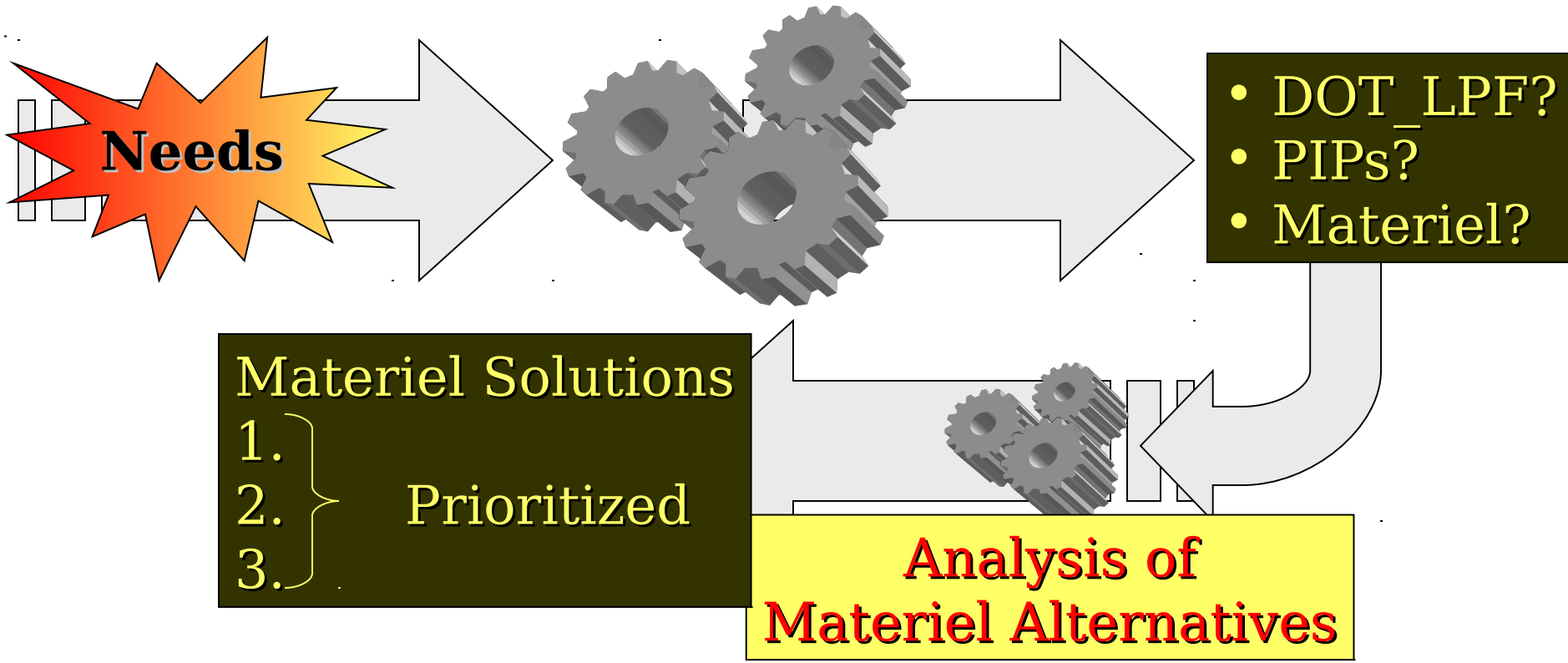
Can current & programmed capabilities accomplish th



Considers IPLs

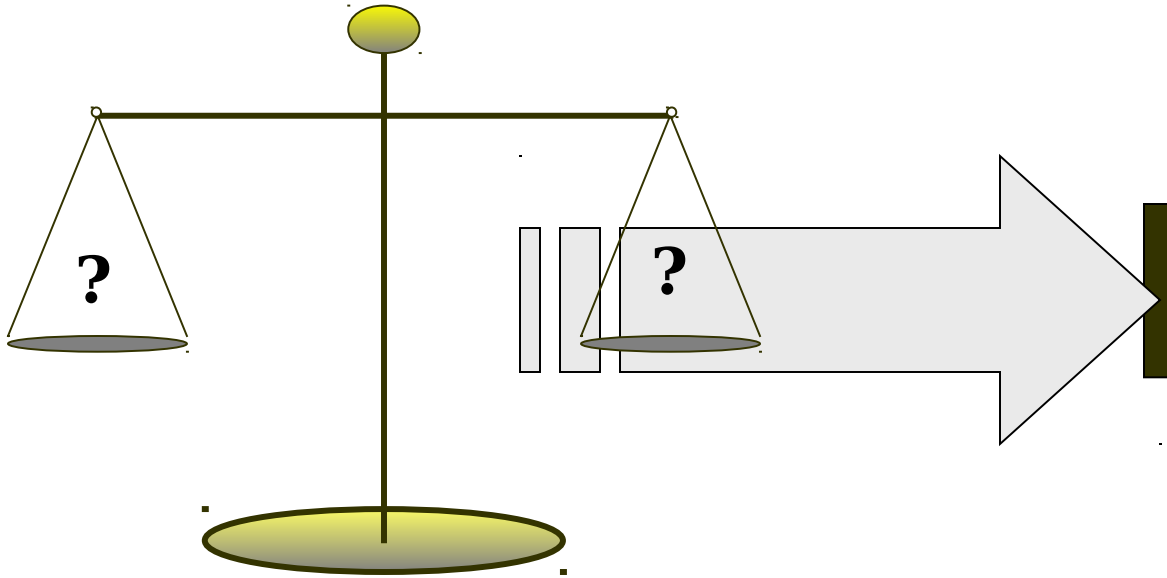
Functional Solution Analysis

Can current & programmed capabilities accomplish th



Post Independent Analysis

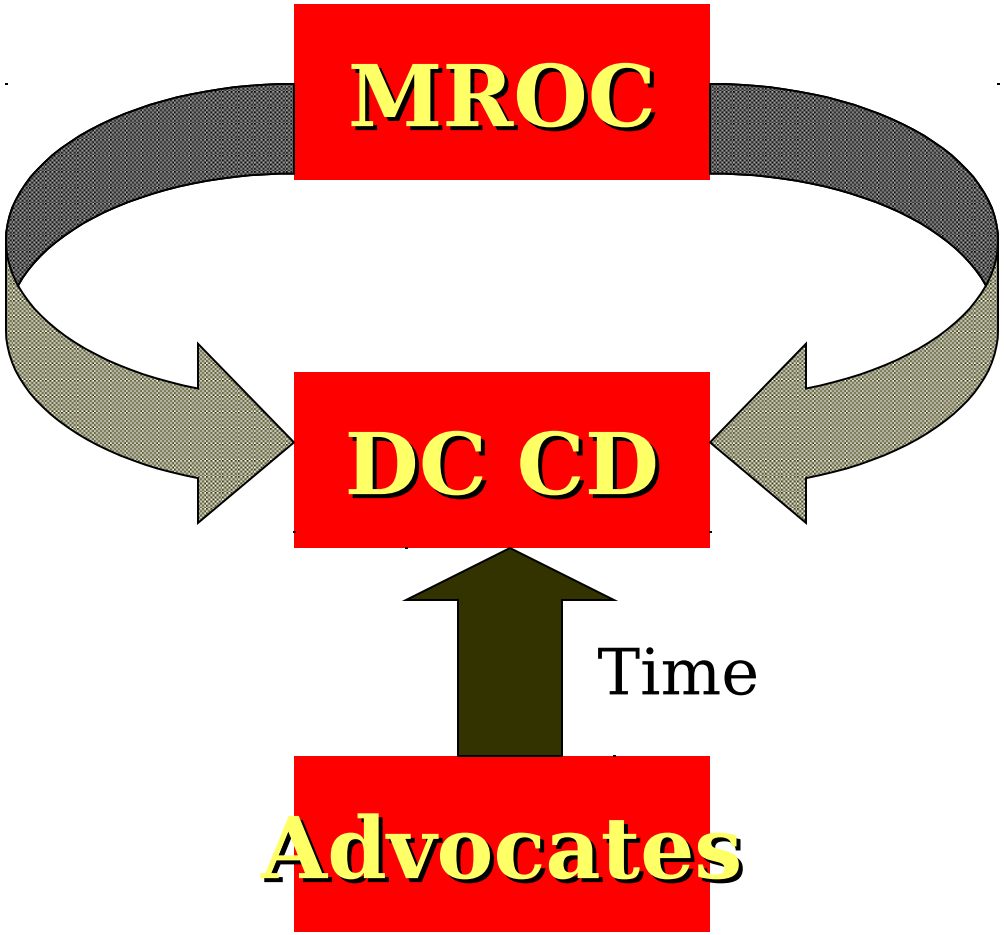
Which DOTMLPF approach best addresses the gap



- DOTMLPF Change
- ICD?

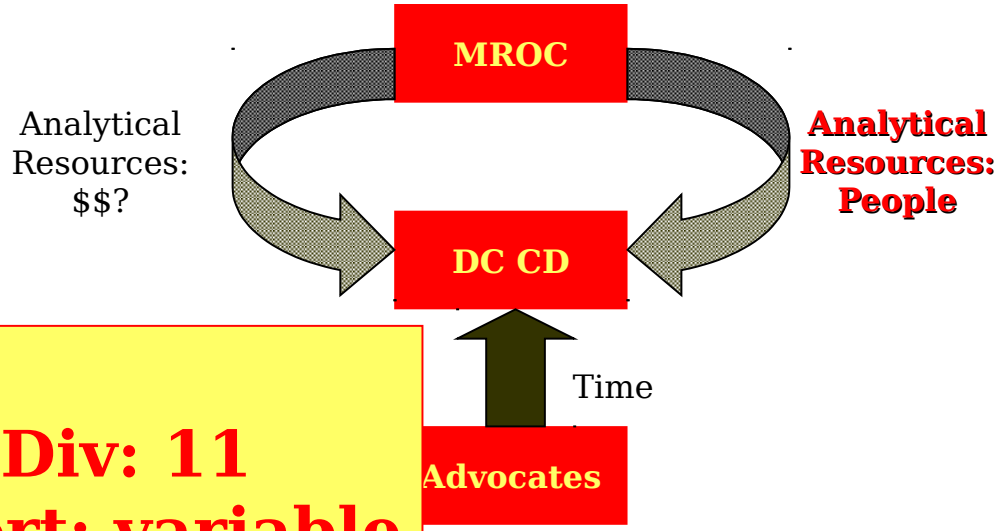
Allocate Resources

Analytical Resources: $$



Analytical Resources: People

Allocate Resources: People



- **Current Situation**
  - **MAA Branch, S&A Div: 11**
  - **PM contract support: variable**
- **Future Requirement**
  - **Maintain ECL: 4 x M/Y/Y**
  - **Analyses: 15 x M/Y/Y**

Speed Up Internal Staffing

- Service 3-star approval required prior to Joint staffing

- Is MROC approval necessary for **every** requirement?
  - Slows internal staffing
  - Lead Advocate normally prevails

- Alternative to current system:
  - ACAT I & II: MROC concurrence
  - ACAT III & IV: DC CD concurrence